

Inventions & Innovation Emerging Technology

Simple Control for Single-Phase AC Induction Motors in HVAC Systems

A new approach to electric motor control removes the need for complex, high-frequency, high-voltage digital controllers that are motor and application specific. Using an optical programmable encoder offers continually variable speed, optimized commutation, dynamic vector control, real-time feedback, application tuning, and signal enhancement for operating AC and DC motors ranging in size from fractional horsepower to industrial motors. The application currently being developed is a drop-in unit for the residential HVAC retrofit market and provides continuous variable adaptability to air temperature, resulting in improved comfort, a cleaner environment, and energy savings.



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U.S. Department of Energy
Energy Efficiency and Renewable Energy